

ABSTRACT OF THE DISCLOSURE

An apparatus for generating x-rays has a structural unit which contains an x-ray tube, a digital control, regulation and storage unit for operating the x-ray tube, and all other components associated with, and supporting, operation of the x-ray tube. All of the components in the structural unit are connected to the digital control, regulation and storage unit. The apparatus also includes a peripheral device having a process computer. The digital control, regulation and storage unit has an interface to the process computer, which forms a single interface to the process computer for all of the components of the structural unit.